

HALICRAFTERS MODEL S-47

TRADE NAME Hallicrafters, S-47

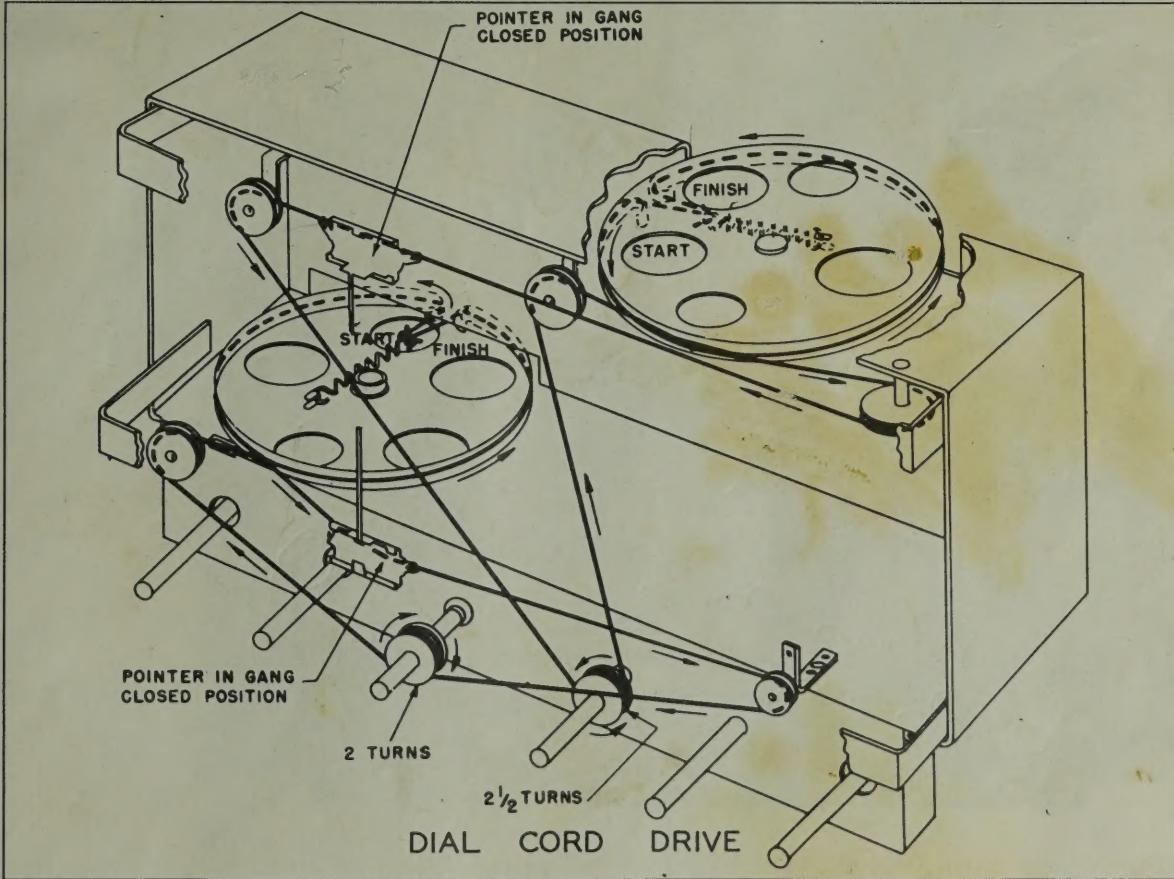
MANUFACTURER Hallicrafters Co., 5th &amp; Kostner Avenues, Chicago 24, Ill.

TYPE SET AC Operated Multi-Band AM-FM Superheterodyne Receiver

TUBES (FIFTEEN) Types, 6BA6 RF Amp., 6BE6 Mixer, 6J6 Osc.-AFC, 6SG7 1st IF Amp., 6SG7 2nd IF Amp., 6SG7 FM 3rd IF-AM Det., 6SH7 FM Limiter, 6AL5 FM Det., 6J5 1st AF Amp., 6J5 2nd AF Amp., 6SQ7 3rd AF Amp., 6SQ7 Phase Inv., (2) 6V6GT Power Output, 5U4G Rectifier.

POWER SUPPLY 105-125 Volts AC RATING 1.4 Amp. @ 117 Volts AC

TUNING RANGE-BROADCAST 540-1700KC SHORT WAVE-Band "A" 15-18MC, Band "B" 9-12MC, Band "C" 5.8-18MC FREQ. MOD. 88-108MC



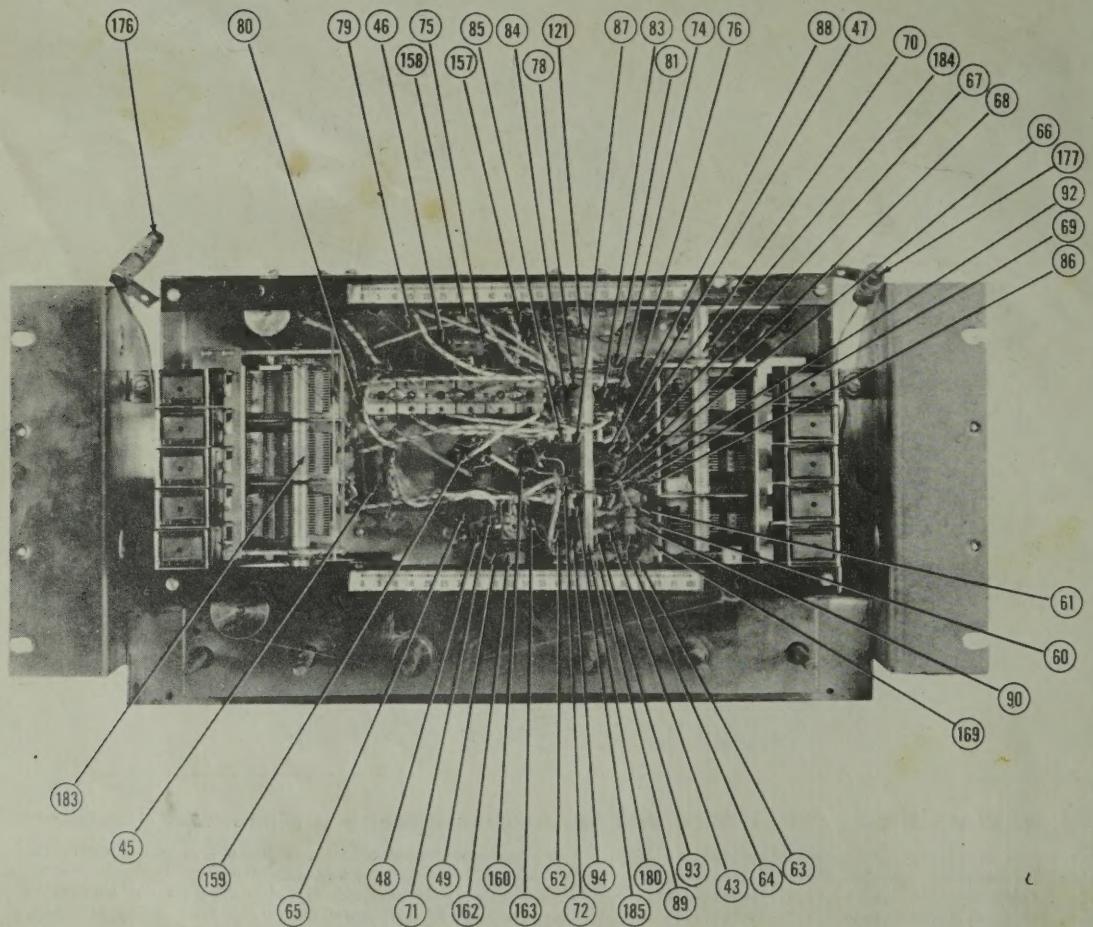
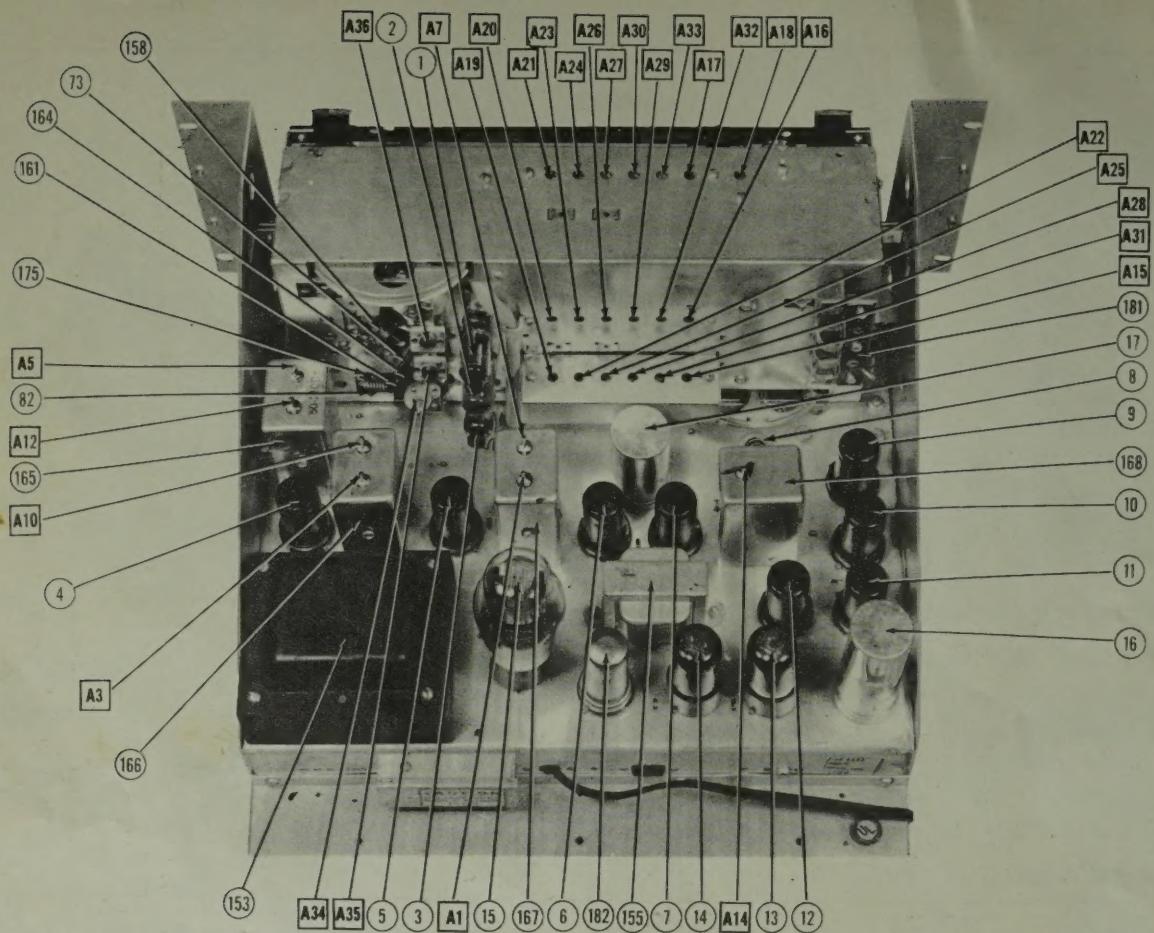
HOWARD W. SAMS &amp; CO., INC. • 2924 East Washington Street • Indianapolis 7, Indiana

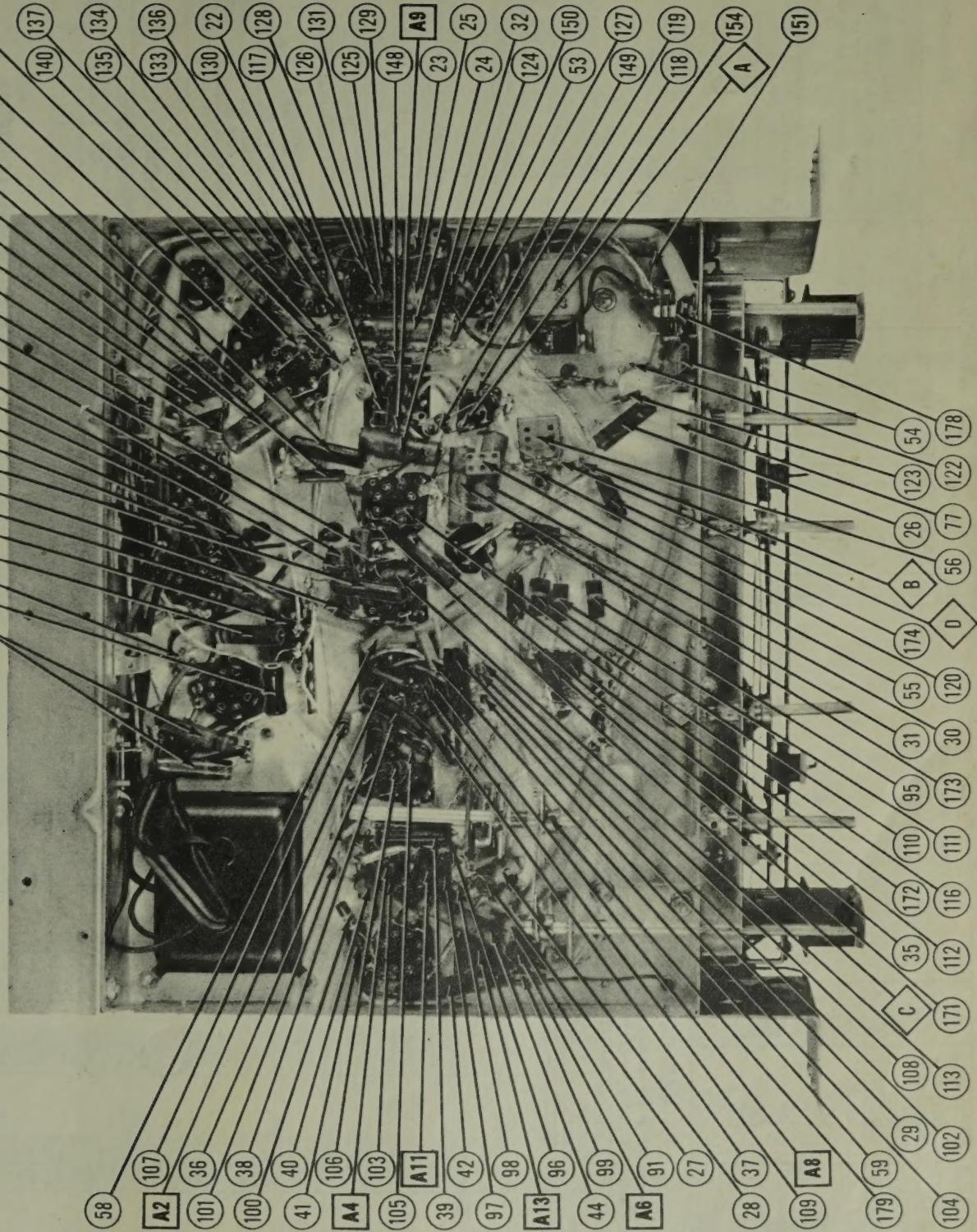
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DATE 9/48-#4816-12 SET #46-FOLDER #12





# PARTS LIST AND DESCRIPTIONS

## PARTS LIST AND DESCRIPTIONS

## PARTS LIST AND DESCRIPTIONS (Continued)

ITEM No.	USE	REPLACEMENT DATA			INSTALLATION NOTES
		HALLICRAFTERS PART No.	STANDARD REPLACEMENT	RMA BASE TYPE	
1	RF AMP.	6BA6	6BA6	7BK	
2	Miller	6BE6	6BE6	7CN	
3	Osc. - AFC	6J6	6J6	7CN	
4	1st IF Amp.	6SG7	6SG7	8BK	
5	2nd IF Amp.	6SG7	6SG7	8BK	
6	FM 3rd IF-AM Det.	6SG7	6SG7	8BK	
7	FM Limiter	6SH7	6SH7	8BK	
8	FM Det.	6A15	6A15	6BT	
9	1st AF Amp.	6J5	6J5	6A	
10	2nd AF Amp.	6J5	6J5	6A	
11	3rd AF Amp.	6SG7	6SG7	8Q	
12	Phase Inv.	6SG7	6SG7	8Q	
13	Power Output	6VG6T	6VG6T	7AC	
14	"	6VG6T	6VG6T	7AC	
15	Rectifier	5U4G	5U4G	5T	

## CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP. VOLT	HALICRAFTERS PART No.	AEROVOX PART No.	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
				CORNELL DIBILLER PART No.	SOLAR PART No.	SPRAGUE PART No.		
16A B	60	475	45B059	AF86J4A†	UP9DJ53†	DY-315		
C	20	475	45B100					
17A B	40	450	20	46AG103J	684-01	NPH-6-01	TC-11	■ Filter " Cathode Bypass
C	40	450	30	600 46AG103F	684-05	ST-6-05	TC-15	■ Coupling " Decoupling
18	1.01	1.05	600	46AG103F	684-01	DT681	TC-11	■ Cathode Bypass
19	20	.01	600	46AG103F	684-05	DT681	TC-11	■ Line Filter
20	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ Audio Couplings
21	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ RF Bypass Pwr. Supply
22	.01	600	46AG103F	684-05	DT681	ST-6-05	TC-11	■ Tone Compensation
23	.05	600	46AG103F	684-05	DT685	ST-6-05	TC-15	■ Audio Coupling
24	.1	200	46AU104H	684-1	DT681	ST-4-01	TC-11	■ Tone Compensation
25	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ Audio Coupling
26	.003	600	46AG202J	684-003	DT6D3	ST-6-003	TC-23	■ Tone Compensation
27	.005	600	46AG202F	684-005	DT6D5	ST-6-005	TC-25	■ Tone Compensation
28	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ AVC Filter
29	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-15	■ Diode Load Cap.
30	.05	600	46AG103F	684-05	DT685	ST-6-05	TC-15	■ 4th IF Plate Decoup.
31	.05	600	46AG103F	684-05	DT685	ST-6-05	TC-15	■ 3rd IF Plate Decoup.
32	.05	600	46AG103F	684-05	DT681	ST-6-01	TC-11	■ 3rd IF Screen Bypass
33	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ 3rd IF Plate Decoup.
34	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ 3rd IF Screen Bypass
35	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ 2nd IF Plate Decoup.
36	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ 2nd IF Screen Bypass
37	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ 2nd IF Cathode Bypass
38	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ 2nd IF Grid Filter
39	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ 2nd IF Grid Filter
40	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ 1st IF Screen Bypass
41	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ AVC Filter
42	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ Mixer Plate Decoup.
43	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-12	■ Decoupling
44	.02	600	46AG202F	684-02	DT682	ST-6-02	TC-12	■ Mixer Screen Bypass
45	.05	600	46AG103F	684-05	DT682	ST-6-05	TC-15	■ AFC Filter
46	.02	600	46AG202F	684-02	DT682	ST-6-02	TC-12	■ Tone Compensation
47	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-11	■ AFC Filter
48	.01	600	46AG103F	684-01	DT681	ST-6-01	TC-12	■ Filament Compensation
49	.02	600	46AG202F	684-02	DT682	ST-6-02	TC-12	■ AF Plate Bypass
50	.02	600	46AG202F	684-02	DT682	ST-6-02	TC-11	■ Tone Compensation
51	.01	600	46AG103F	684-01	SWAT2	MO-5-325	TC-23	■ AF Plate Bypass
52	.220	500	CM204221M	1468-0002	SWAT3	MO-5-33	TC-23	■ Tone Compensation
53	.330	500	CM204331M	1468-00035	SWAT3	MO-5-435	TC-42	■ RF Bypass
54	.22	500	C1204220K	1468-00025	SWAT2	MO-5-31	TC-21	■ De-Euphatis
55	.100	500	C1204101K	1468-0001	SWAT1	MO-5-21	TC-21	■ AFC Filter
56	1000	300	C1304102K	1468-0001	WAD1	MO-5-45	TC-21	■ De-Euphatis
57	.47	500	C1404220M	1468-00005	SWAT2	MO-5-325	TC-21	■ Diode RF Filter
58	.220	500	C1404221M	1468-00005	SWAT2	MO-5-325	TC-21	■ Diode RF Filter

REPLACEMENT DATA

### ACCEMENT DATA

IDENTIFICATION CODES									
ITEM No.	RATING	HALICRAFTERS PART No.	IRC PART No.						
110	10K2	2	RC20AEL03M	BT-2-10K	BT-2-10K	Br-BLK-Or. Voltage Dropping	Br-BLK-Or. Voltage Dropping	Br-BLK-Or. Voltage Dropping	Br-BLK-Or. Voltage Dropping
111	10K2	2	RC20AEL03M	BT-2-10K	BT-2-10K	Br-BLK-Or. Cathode	Br-BLK-Or. Cathode	Br-BLK-Or. Cathode	Br-BLK-Or. Cathode
112	15K2	2	RC20AEL51M	BT-4-47K	BT-4-47K	Br-Or-Red. 3rd IF Screen Dropping			
113	22K2	2	RC20AEL22M	BT-5-330K	BT-5-330K	Br-BLK-YL. 4th IF Plate Load			
114	47K2	2	RC20AEL47M	BT-5-100K	BT-5-100K	Br-BLK-YL. 4th IF Screen Dropping			
115	33K2	2	RC20AEL33M	BT-5-100K	BT-5-100K	Br-BLK-YL. Ret. Dide Load			
116	10K2	2	RC20AEL04M	BT-5-100K	BT-5-100K	Br-BLK-YL. Re-emphasis	Br-BLK-YL. Re-emphasis	Br-BLK-YL. Re-emphasis	Br-BLK-YL. Re-emphasis
117	10K2	2	RC20AEL04M	BT-5-100K	BT-5-100K	Br-BLK-Or. AFC Network	Br-BLK-Or. AFC Network	Br-BLK-Or. AFC Network	Br-BLK-Or. AFC Network
118	10K2	2	RC20AEL04M	BT-5-100K	BT-5-100K	Br-Or-Or-Blk. Feedback	Br-Or-Or-Blk. Feedback	Br-Or-Or-Blk. Feedback	Br-Or-Or-Blk. Feedback
119	10K2	2	RC20AEL04M	BT-5-100K	BT-5-100K	Br-BLK-Red. 2nd AF Grid			
120	10K2	2	RC20AEL05M	BT-5-100K	BT-5-100K	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.
121	1.1M2	2	RC20AEL20M	BT-5-33	BT-5-33	Br-Or-Or-Blk. Tone Comp.	Br-Or-Or-Blk. Tone Comp.	Br-Or-Or-Blk. Tone Comp.	Br-Or-Or-Blk. Tone Comp.
122	33K2	2	RC20AEL33M	BT-5-100K	BT-5-100K	Br-BLK-Red. 2nd AF Plate Load			
123	100K2	2	RC20AEL04M	BT-5-100K	BT-5-100K	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.
124	100K2	2	RC20AEL24M	BT-5-220K	BT-5-220K	Br-BLK-YL. 3rd AF Grid			
125	220K2	2	RC20AEL24M	BT-5-470K	BT-5-470K	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.
126	470K2	2	RC20AEL72M	BT-5-33K	BT-5-33K	Br-BLK-Or. Cathode Bias Network			
127	33K2	2	RC20AEL33M	BT-5-33K	BT-5-33K	Br-BLK-Or. Red 3rd AF Grid			
128	33K2	2	RC20AEL33M	BT-5-33K	BT-5-33K	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.
129	33K2	2	NC20AEL394K	BT-5-390K	BT-5-390K	Br-Wh-Red. Phase Inverter Cathode			
130	30K2	2	RC20AEL22M	BT-5-22K	BT-5-22K	Br-BLK-YL. Phase Inverter Grid			
131	22K2	2	RC20AEL47M	BT-5-47K	BT-5-47K	Br-BLK-YL. Inverter Plate Load			
132	47K2	2	RC20AEL22M	BT-5-100K	BT-5-100K	Br-BLK-Or. Cathode	Br-BLK-Or. Cathode	Br-BLK-Or. Cathode	Br-BLK-Or. Cathode
133	22K2	2	RC20AEL22M	BT-5-100K	BT-5-100K	Br-Or-Or-Blk. Feedback	Br-Or-Or-Blk. Feedback	Br-Or-Or-Blk. Feedback	Br-Or-Or-Blk. Feedback
134	100K2	2	RC20AEL04M	BT-5-100K	BT-5-100K	Br-BLK-YL. Output Grid	Br-BLK-YL. Output Grid	Br-BLK-YL. Output Grid	Br-BLK-YL. Output Grid
135	100K2	2	RC20AEL04M	BT-5-100K	BT-5-100K	Br-BLK-YL. Cathode Bias Network			
136	470K2	2	RC20AEL71M	BT-5-470K	BT-5-470K	Br-BLK-YL. 3rd AF Plate Load			
137	470K2	2	RC20AEL71M	BT-5-470K	BT-5-470K	Br-BLK-YL. Tone Compensation	Br-BLK-YL. Tone Compensation	Br-BLK-YL. Tone Compensation	Br-BLK-YL. Tone Compensation
138	36.003	2	RC20AEL32K	BT-5-300	BT-5-300	Br-Or-Or-Blk. Filter	Br-Or-Or-Blk. Filter	Br-Or-Or-Blk. Filter	Br-Or-Or-Blk. Filter
139	30.003	2	RC20AEL04M	BT-5-100K	BT-5-100K	Br-BLK-YL. Feedback	Br-BLK-YL. Feedback	Br-BLK-YL. Feedback	Br-BLK-YL. Feedback
140	220K2	2	RC20AEL24M	BT-5-220K	BT-5-220K	Br-BLK-YL. Voltage Dropping	Br-BLK-YL. Voltage Dropping	Br-BLK-YL. Voltage Dropping	Br-BLK-YL. Voltage Dropping
141	35K2	2	RC20AEL34M	BT-5-35K	BT-5-35K	Br-Red-Or. Decoupling	Br-Red-Or. Decoupling	Br-Red-Or. Decoupling	Br-Red-Or. Decoupling
142	47K2	2	RC20AEL74M	BT-5-470K	BT-5-470K	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.
143	33K2	2	244664	AB-300	AB-300	Br-BLK-YL. Bleeder	Br-BLK-YL. Bleeder	Br-BLK-YL. Bleeder	Br-BLK-YL. Bleeder
144	470K2	2	RC20AEL71M	BT-5-470	BT-5-470	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.
145	33K2	2	244664	AB-300	AB-300	Br-BLK-YL. Filter	Br-BLK-YL. Filter	Br-BLK-YL. Filter	Br-BLK-YL. Filter
146	12K2	2	RC20AEL123K	BT-5-12K	BT-5-12K	Br-BLK-YL. Phono Shunt	Br-BLK-YL. Phono Shunt	Br-BLK-YL. Phono Shunt	Br-BLK-YL. Phono Shunt
147	50K2	2	RC20AEL24M	AB-50K	AB-50K	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.
148	22K2	2	RC20AEL22M	BT-5-22K	BT-5-22K	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.
149	820K2	2	RC20AEL6882K	BT-5-820K	BT-5-820K	Br-BLK-YL. Bleeder	Br-BLK-YL. Bleeder	Br-BLK-YL. Bleeder	Br-BLK-YL. Bleeder
150	68K2	2	RC20AEL103M	BT-5-10K	BT-5-10K	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.
151	10K2	2	RC20AEL34M	BT-5-35K	BT-5-35K	Br-Or-Or-Blk. Filter	Br-Or-Or-Blk. Filter	Br-Or-Or-Blk. Filter	Br-Or-Or-Blk. Filter
152	330K2	2	RC20AEL34M	BT-5-35K	BT-5-35K	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.	Br-BLK-YL. Tone Comp.

## PARTS LIST AND DESCRIPTIONS (Continued)

## PARTS LIST AND DESCRIPTIONS (Continued)

## CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP.	VOLT	REPLACEMENT DATA				SPRAGUE PART No.	IDENTIFICATION CODES AND NOTES
			HALLICRAFTERS PART No.	AEROVox PART No.	CORNELL- DUBLINER PART No.	SOLAR PART No.		
53	220	500	C120A221M	1468-0002	5W5T2	MO.5-325	1FM-325	" "
60	210	600	47A149	1468-00001	5W5Q1	MO.5-41	NS-41	RF Coupling-Cer.
61	1000	300	47B32103N1	1467-01	1D3S1	MW.3-11	1FM-11	Osc. Cathode Bypass-Cer.
62	47	500	C120A4701M	1468-00005	5W5Q5	MO.5-45	1FM-25	AFC Filter
63	500	300	47A147	1468-00005	5W5T5	MO.5-35	1FM-25	Osc. Feedback-Cer.
64	1000	300	47A146	1468-001	1W5D1	MO.5-21	1FM-21	Osc. Decoupling-Cer.
65	3500	300	C1235A392J					Fixed Pad
66	47	500	47A150	1468-00005	5W5Q5	MO.5-45	1FM-45	Osc. Grid Cap-Cer.
67	10	500	C120A100K	1468-00001	5W5Q1	MO.5-41	MS-41	Mixer Plate, Bypass
68	100	300	47A148	1468-001	1W5D1	MO.5-21	1FM-21	Mixer Screen Bypass-Cer.
69	47	500	47A150	1468-00005	5W5Q5	MO.5-45	1FM-35	Osc. Coupling-Cer.
70	500	300	47A147	1468-00005	5W5T5	MO.5-35	1FM-35	RF Plate Decoup.-Cer.
71	39	500	C120S9E930M					Fixed Pad-Cer.
72	1.5	500	47A160-3					Osc. Feedback-Cer.
73	72	500	C120A220K					Fixed Trimmer-Silver
74	74	1000	300	47A148				RF Screen Bypass-Cer.
75	75	1000	500	C120A101M	1468-0001	1W5D1	1FM-21	Fixed Trimmer
76	47	500	C120A4701M	1468-00005	5W5T1	MOS.5-31	1FM-31	RF Coupling-Cer.
78	186	1000	300	47A148	1468-001	5W5Q5	MO.5-45	1FM-21
79	186	1000	300	47A148	1468-001	1W5D1	1FM-21	1FM.5-21
						DT6S1	ST-6-01	

Omit one section.

CONTINUOUS

ITEM No.	REPLACEMENT DATA				INSTALLATION NOTES
	RATING WATTS	HALICRAFT PART No.	IRC PART No.	CLAROSTAT PART No.	
77A	2 Mef. Shaft	254685	D13-176	M-66-2 A	Volume Control Not Req.
77B					Attach to TA per instructions

## RESISTORS

DATE 9/48-#4816-12 SET #46-FOLDER #12

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## R F COILS

**REPLACEMENT DATA**

USE  
DC RES. HALL CRAFTERS, MEISSNER

PART No.	PART No.		
	PRI.	SEC.	PART No.
156	Ant. Coil	BC 423	7-432
157	"	SW 03	51B955
158	"	FM 03	51B909
159	RF Coil	BC 6-72	51B916
160	"	SW 03	51B910
161	"	FM 03	51B905
162	Osc. Coil	BC 4-82	51B915
163	"	SW 03	51B911
164	"	FM 03	51B908
165	1st IF Trans	52	51B914
166	2nd IF "	52	500210
167	3rd IF "	52	500200
168	FM Det. "	52	500200
169	RF Choke'	23	500208
170	"	"	53B008
171	"	"	53A106
172	"	"	53A106
173	"	"	53A106
174	"	"	53A106
175	"	"	53A115

DIAL LIGHT		REPLACEMENT DATA	
ITEM	DESCRIPTION	REFAD	REFAD

INSTALLATION NOTES					
No.	NAME	TYPE	VOLTS	AMPS.	COLOR
177	Bayonet	H	6-8	0.15	Brown
					H

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## MISCELLANEOUS

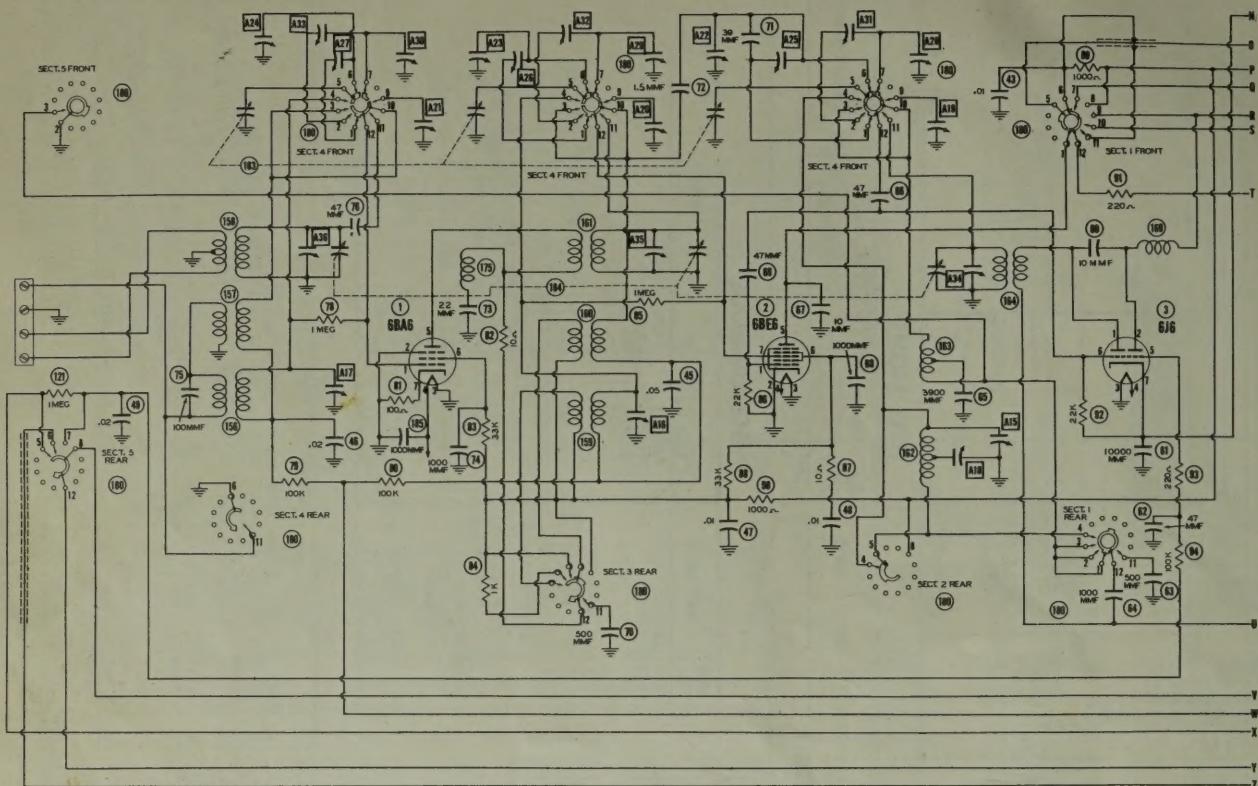
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ITEM No.	PART NAME	HALICRAFTERS PART No.	NOTES
1708	Switch	6B307	Push-On-Off BNC
1709		6B3267	

180	"	60266
181	"	184092
182	Dallass Tube	243870
183	Gang Var. Cap	44176
184	"	483175
A18	Trimmer	44189
	Strips	
	"	Osc
	"	(RF)
	"	(Art)
A35	Trimmer	44196
A36	"	44190
A36	Pointer	44192
		44194
		828143
		828145
		828138
		228184
	Dial Glass	
		Upper
		Right
		Bottom
		Left
		Front
		Back
		Each section
		(AM) (12-475MF)
		(FM)
		BC Osc. Adj.

**PUSHBUTTON ADJUSTMENTS**

1. Make up list of stations desired to be set up.
2. Turn set on and allow to warm up for at least fifteen minutes.
3. Insulate muting switches by inserting paper strip between contacts.
4. Remove transparent section of button and insert screwdriver thru large hole of button.
5. Loosen locking screw not more than one turn.
6. Depress Pushbutton and manually tune in station desired to be set up, and tighten locking screw.
7. Insert call letter tab of station between transparent section of button and metal insert and replace insert in button. This station is now set up.



VOLTAGE AND RESISTANCE READINGS TAKEN IN BROADCAST POSITION  
NOTE-Tone Control full clockwise.

VOLTAGE READINGS							
	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6
1	6BA5	-.29VDC	OV.	OV.	5.4VAC	250VDC	140VDC
2	6BE6	-.11VDC	OV.	OV.	5.4VAC	320VDC	95VDC
3	6J1	215VDC	1.7VDC	OV.	5.4VAC	OV.	-.14VDC
4	6J16	190VDC	110VDC	OV.	5.4VAC	-.6VDC	-.3-3VDC
4	8802	OV.	OV.	OV.	5.4VDC	OV.	130VDC
5	6807	OV.	OV.	2.8VDC	OV.	2.8VDC	182VDC
5	6807	OV.	OV.	OV.	-.8VDC	OV.	1.3VDC
5	6807	OV.	OV.	2.2VDC	OV.	2.2VDC	140VDC
7	6877	OV.	OV.	OV.	-.2VDC	OV.	75VDC
8	6ALS	-.7-.4VDC	9VDC	6.3VAC	OV.	SVDC	OV.
9	6J5	OV.	5.4VAC	70VDC	47VDC	OV.	125VDC
10	6J5	OV.	5.4VAC	112VDC	130VDC	OV.	OV.
11	6807	OV.	OV.	1VDC	OV.	125VDC	5.4VAC
12	6807	OV.	-.1VDC	2VDC	OV.	200VDC	5.4VAC
14	6V605T	OV.	345VDC	325VDC	OV.	OV.	5.4VAC
14	6V605T	OV.	OV.	345VDC	325VDC	OV.	5.4VAC
15	5U4G	OV.	400VDC	OV.	390VAC	OV.	350VDC

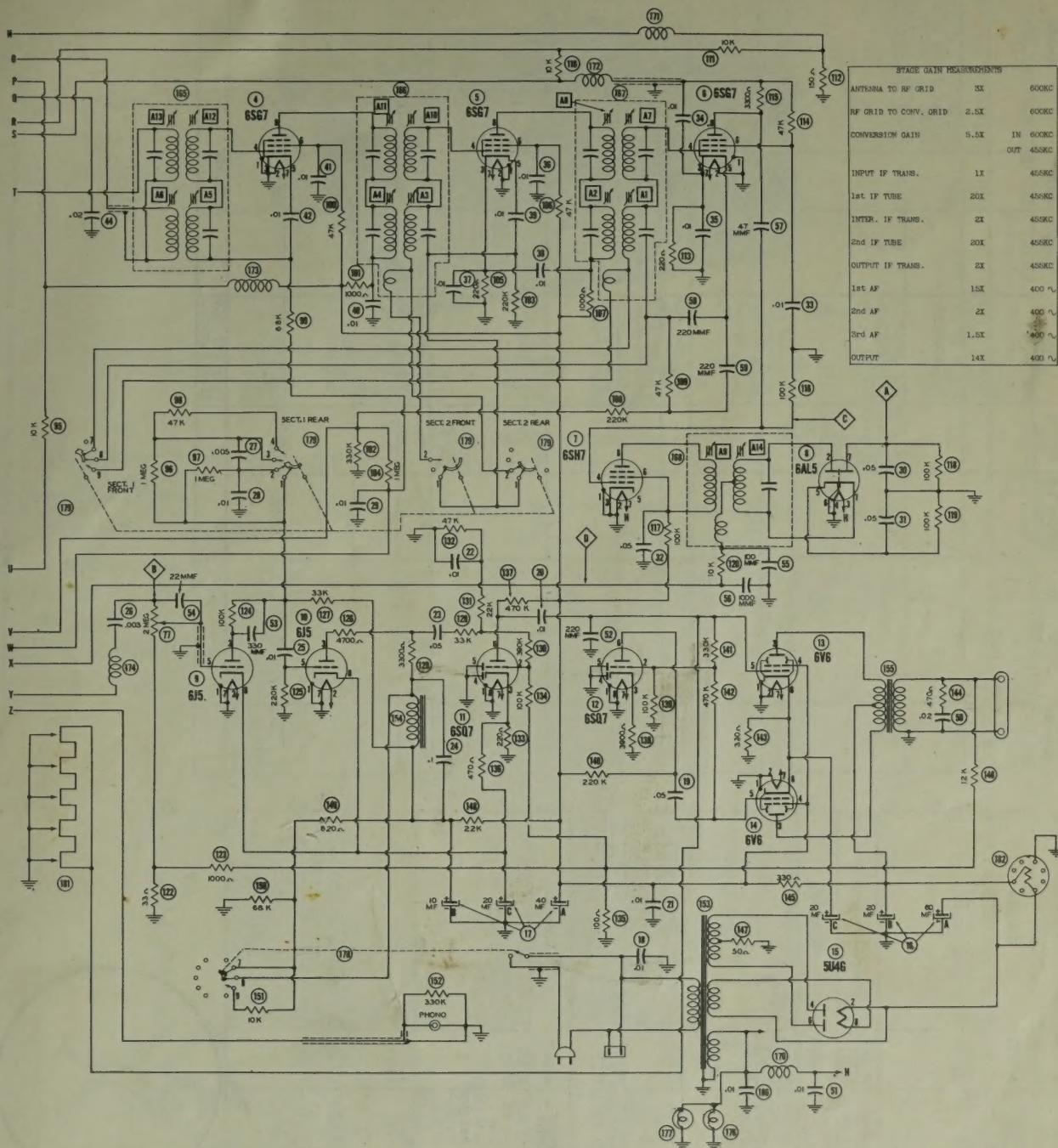
Voltage and Resistance Readings taken with 500Ω load.  
\*10KΩ in FM position.

RESISTANCE READINGS								
Line	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
1	6846	1.5 M $\Omega$	.02	.02	.05K	40K $\Omega$	74K $\Omega$	100K
2	6896	22K $\Omega$	.05	.02	.05K	40K $\Omega$	74K $\Omega$	1.5 M $\Omega$
3	6456	50K $\Omega$	10K $\Omega$	.02	.05K	1.5M $\Omega$	22K $\Omega$	150 $\Omega$
4	6366	30K $\Omega$	10K $\Omega$	.02	.05K	1.5M $\Omega$	22K $\Omega$	150 $\Omega$
4	6907	.02	.05	.02	1.5 M $\Omega$	.02	87K $\Omega$	.05K
5	6807	.02	.02	220 $\Omega$	220K $\Omega$	220 $\Omega$	87K $\Omega$	.05K
6	6897	.02	.02	220 $\Omega$	60K $\Omega$	220 $\Omega$	87K $\Omega$	.05K
6	6887	.02	.02	220 $\Omega$	60K $\Omega$	220 $\Omega$	57K $\Omega$	.05K
7	6897	.02	.05	.02	10K $\Omega$	.02	14K $\Omega$	.25K
8	6456	1.5M $\Omega$	.05K	.25K	.02	10K $\Omega$	.02	10K $\Omega$
9	6456	.02	.05K	170K $\Omega$	40K $\Omega$	2 M $\Omega$	80K $\Omega$	.02
10	6456	.02	.05K	45K $\Omega$	40K $\Omega$	220K $\Omega$	1K $\Omega$	.02
11	6897	.02	.02	100K $\Omega$	220 $\Omega$	.02	.02	51K $\Omega$
12	6897	.02	.02	100K $\Omega$	3.9K $\Omega$	.02	.02	26K $\Omega$
13	68607	.02	.05	40K $\Omega$	40K $\Omega$	40K $\Omega$	.05K	.05K
14	68607	.02	.05	40K $\Omega$	40K $\Omega$	57K $\Omega$	1K $\Omega$	.05K
15	6146	1.5M $\Omega$	40K $\Omega$	1.5M $\Omega$	1.5M $\Omega$	1.5M $\Omega$	.05K	40K $\Omega$

RESISTANCE READINGS IN THE B+ CIRCUITS MAY VARY WIDELY ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS.

THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of  $\pm 10\%$  in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.



IF=455KC AM

IF=10.7MC FM

The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation, such as, type of equipment used for measuring, handling and placement of probes, the accuracy of alignment, etc., that an absolute reading is impractical. AVC is made inoperative and 3-volt battery bias substituted for measurement.

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**ALIGNMENT INSTRUCTIONS-READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT**  
Use scales on dial pointer rails for calibration purposes. These are accessible after dial  
plate has been removed. With tuning caps, fully closed set right edges of dial pointer  
to "0" on both scales.  
Use insulated screwdriver for all adjustments.  
Set insulation tone control to **1** position fully counter-clockwise.

## ALIGNMENT

FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM					
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST
.01 MFD	High side to stator of center section of AM tuning cap. Low side of chassis.	BC (3 Positonal strip. from full counter-clock-wise)	#55 on AM calibra-tions strip.	Across voice coil A3A4, with tone control fully A5,A6, counter-clockwise.	A1,12, Adjust for maximum output
.01 MFD	High side to center section of FM tuning cap. Low side to chassis.	FM (4 Positonal strip. from full counter-clock-wise)	#50 on FM calibra-tions strip.	DC probe A7A8, Adjust for maximum de-lection. Common A1,A12 to chassis A18	DC probe A9A10, Adjust for maximum de-lection. Common A1,A12 to chassis A18
.01 MFD		"	"	DC probe A14 to Point A14	Adjust for zero detec-tion. Continue with RF Alignment in Step 5.

NEW IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

Use frequency modulated signal with 60 $\text{v}$ modulation and 250KC sweep. Use 120 $\text{v}$ sawtooth voltage in scope for horizontal deflection.						
SIGNAL GENERATOR COUPLING		SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	SCOPE CONNECT	ADJUST	REMARKS
.01 MFD	High side to Pin 4 (grid) of 6867 1st IF tube (4). Low side to chassis.	10.7/MC (Freq. Mod.)	FM (4 Positions from full)	#50 on FM calibration strip.	A7 A8 A10, A11 series S resistor to Point "Ground to chassis	Adjust for maximum amplitude, symmetry and coincidence of pattern per Fig. 1.
.01 MFD	High side to stator of center section of FM tuning cap. Low side to chassis.				A12, A13	"
.01 MFD	High side to Pin 4 (grid) of 6867 1st IF tube (4). Low side to chassis.				A9, A14	Alternately adjust A9 for maximum amplitude and A14 for maximum straightness of crossover occurring at center of pattern per Fig. 2. Continue with RF Alignment in Step 5.

1440 1441 1442 1443

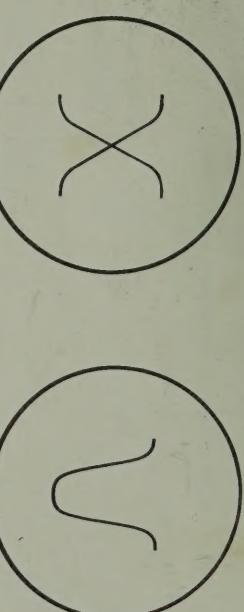
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RF ALIGNMENT

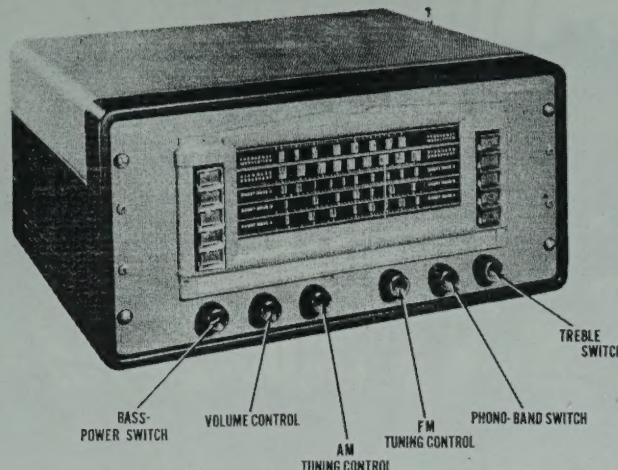
Standard RIA dummy antenna consists of 200 MFD cap. in series with a 20 microhenry RF choke shunted by a 400 MFD cap. in series with a 400 $\Omega$  carbon resistor. Volume control should be at maximum position, output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.

DUMMY ANTENNA		SIGNAL GENERATOR COUPLING		RADIO DIAL	OUTPUT METER	ADJUST	REMARKS
5	RVA	To terminals "A"	1500KC	BC	#82 on AM calibration strip.	A15 Across voice coil	Adjust for maximum output
	Dummy	and "G" on ant.			Tune for maximum output.		
6	"	terminal "	"	"	#15.5 on AM calibration strip.	A16, A17	Adjust for maximum output
7	"	"	600KC	"	"	A18	Adjust for maximum output Repeat Steps 5, 6 & 7 until no further improvement can be made.
8	"	"	1620	Band "C" (2 positions from full counter- clock- wise)	#84 on AM calibration strip.	A19	Adjust for maximum output
9	"	"	"	"	Tune for maximum output.	A20, A21	Rock tuning cap. and adjust for maximum output.
10	"	"	15MC	"A"	#94.5 on AM calibration strip.	A22	Adjust for maximum output
				"	(fully counter-clock- wise)		
11	"	"	"	"	Tune for maximum output.	A23, A24	Rock tuning cap. and adjust for maximum output.
12	"	"	15MC	"	#7.5 on AM calibration strip.	A25	Adjust for maximum output
"	"	"	"	"	Tune for maximum output.	A26, A27	Rock tuning cap. and adjust for maximum output. Repeat Steps 10, 11, 12 & 13 until no further improvement can be made.
14	"	"	12MC	"B"	#91.5 on AM calibration strip.	A28	Adjust for maximum output
				"	(1 Pos 1 calibration from full counter-clock-wise)		
15	"	"	"	"	Tune for maximum output.	A29 A30	Rock tuning cap. and adjust for maximum output.
16	"	"	9MC	"	#6.5 on AM calibration strip.	A31	Adjust for maximum output
17	"	"	"	"	Tune for maximum output.	A32, A33	Rock tuning cap. and adjust for maximum output. & 17 until no further improvement can be made.
18	2 - 1500	Each side in carbon series with 160Ω resistors.	108MC	FM	#83.5 on FM calibration strip.	A34	Adjust for maximum output
				"	"		
19	"	"	"	"	Tune for maximum output.	A35, A36	

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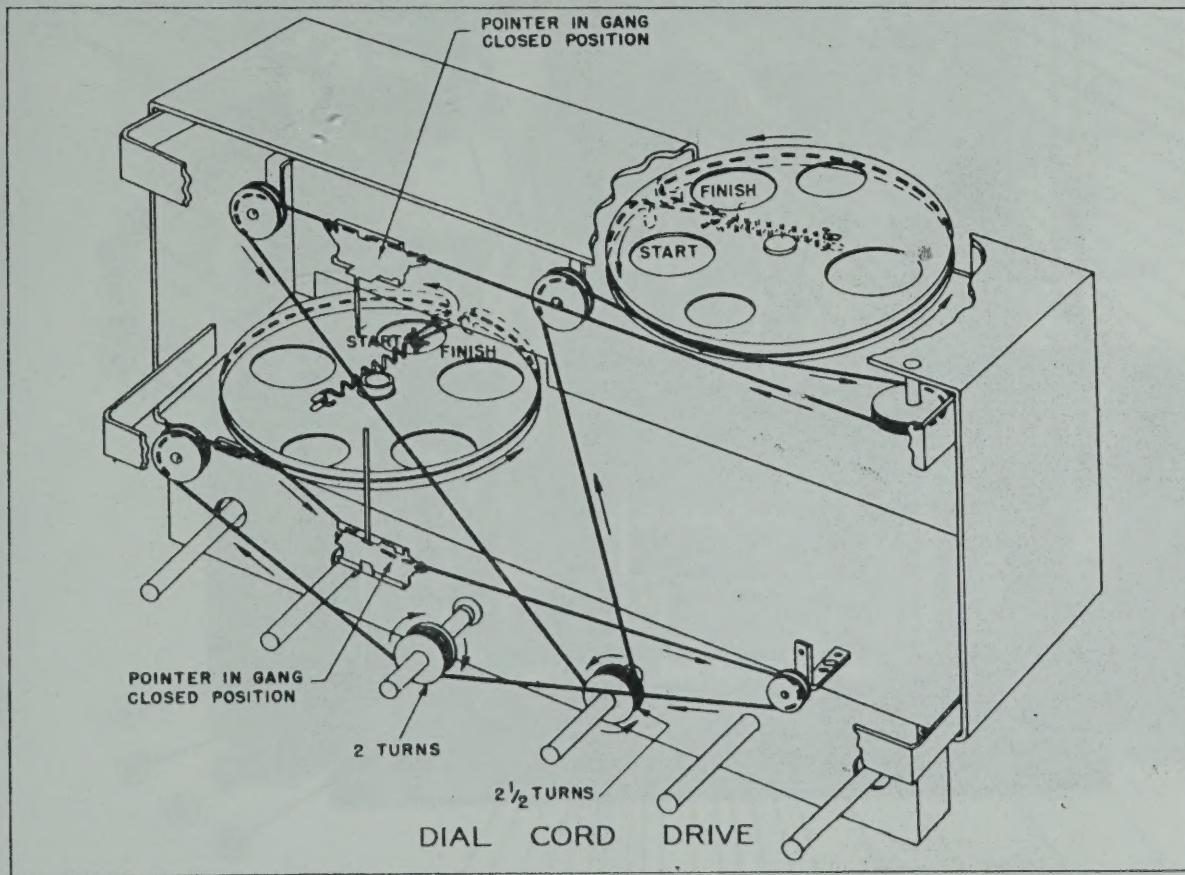


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HALICRAFTERS MODEL S-47

TRADE NAME	Hallicrafters, S-47	
MANUFACTURER	Hallicrafters Co., 5th & Kostner Avenues, Chicago 24, Ill.	
TYPE SET	AC Operated Multi-Band AM-FM Superheterodyne Receiver	
TUBES (FIFTEEN) Types, 6BA6 RF Amp., 6BE6 Mixer, 6J6 Osc.-AFC, 6SG7 1st IF Amp., 6SG7 2nd IF Amp., 6SG7 FM 3rd IF-AM Det., 6SH7 F11 Limiter, 6AL5 FM Det., 6J5 1st AF Amp., 6J5 2nd AF Amp., 6SQ7 3rd AF Amp., 6SQ7 Phase Inv., (2) 6V6GT Power Output, 5U4G Rectifier.		
POWER SUPPLY	105-125 Volts AC      RATING 1.4 Amp. @ 117 Volts AC	
TUNING RANGE-BROADCAST	540-1700KC      SHORT WAVE-Band "A" 15-18MC, Band "B" 9-12MC, Band "C" 5.8-18MC FREQ. MOD. 88-108MC	



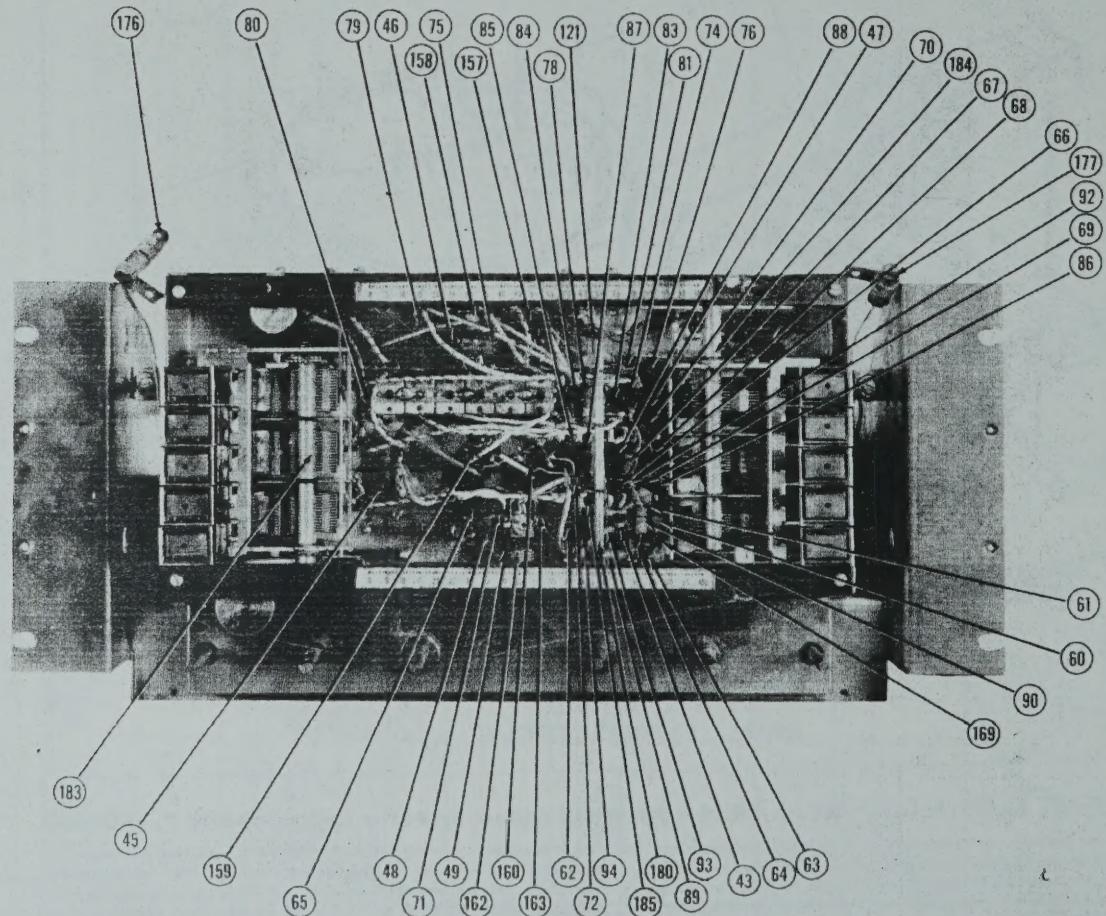
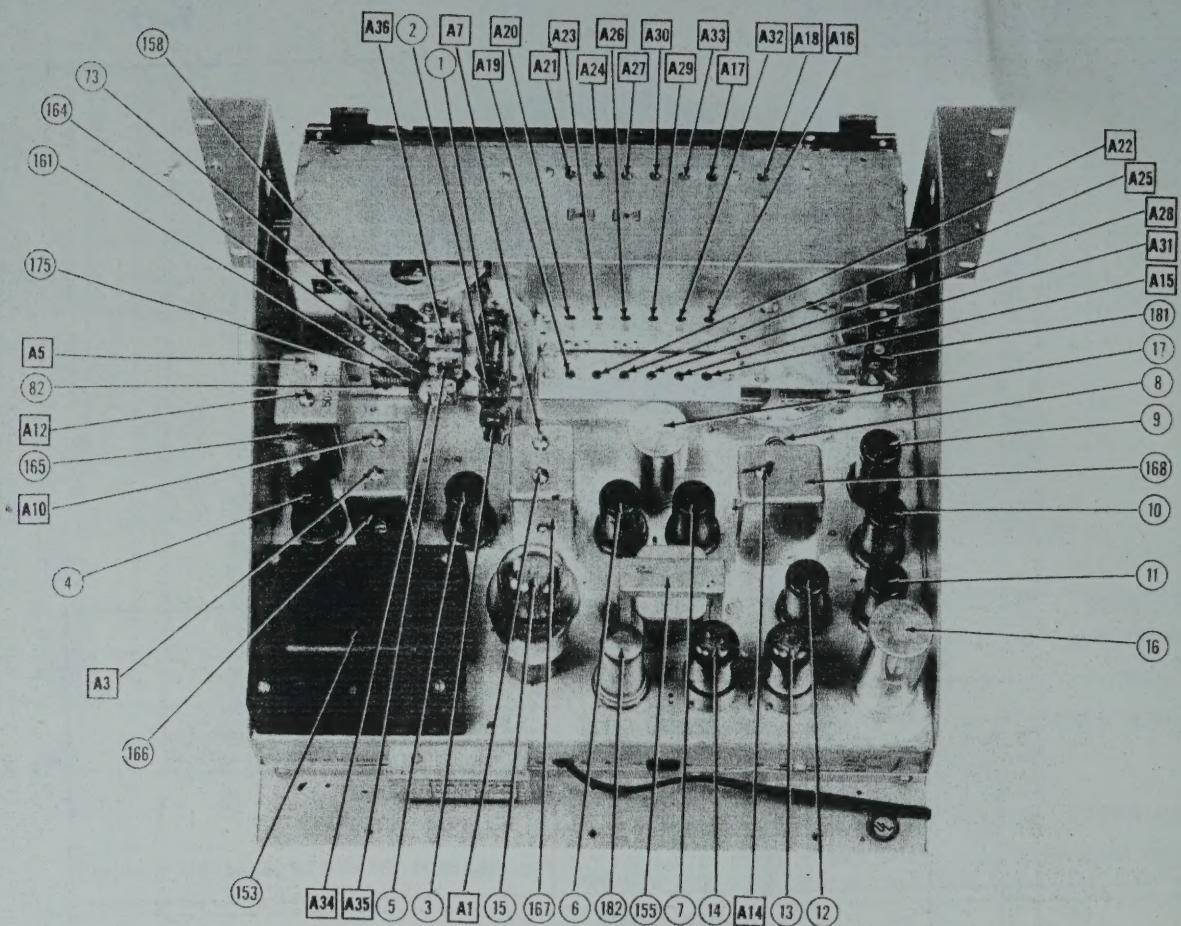
HOWARD W. SAMS & CO., INC. • 2924 East Washington Street • Indianapolis 7, Indiana

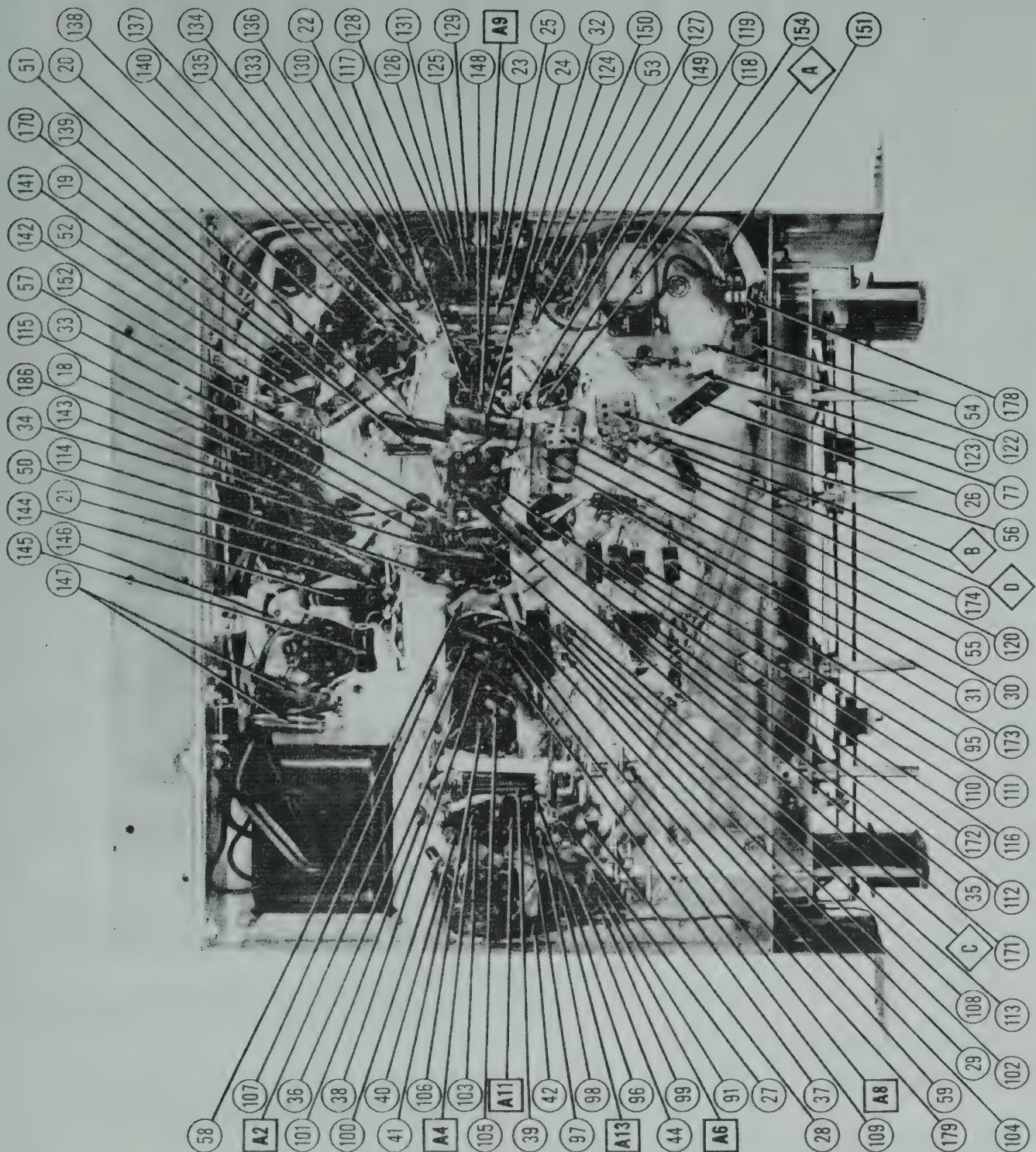
"The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed."

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DATE 9/48-#4816-12 SET #46-FOLDER #12





## **PARTS LIST AND DESCRIPTIONS**

# PARTS LIST AND DESCRIPTIONS

ITEM No.	USE	REPLACEMENT DATA			INSTALLATION NOTES
		HALLICRAFTERS PART No.	STANDARD REPLACEMENT	RMA BASE TYPE	
1	RF Amplifier 14.1 or 14.2	6524C 6524C	6524C 6524C	7230 7230	
2	AF Det.	6524C	6524C	7230	
3	1st AF Amp.	6524C	6524C	7230	
4	2nd AF Amp.	6524C	6524C	7230	
5	3rd AF Amp.	6524C	6524C	7230	
6	Phase Mixer	6524C	6524C	7230	
7	Power Output	6524C	6524C	7230	
8	Recifier	6524C	6524C	7230	

## CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic

ITEM No.	RATING CAP. VOLT	HALLOTAIR 1528 PART No.	AEROVOX PART No.	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
				SOLAR PART No.	CORNELL- DUBILIER PART No.	SPRAGUE PART No.	Watt Filter	
164	60	4756	AF8674A†	UP8653†	TC-11	MPH-6-01	Carbone Bypass	
165	20	4756			TC-15	ST-6-05	Filter	
171	0	20	450	450A100	TC-11	ST-6-01	Decoupling	
173	19	450			TC-11	ST-6-01	Capacitor Bypass	
174	0	30	450		TC-11	ST-6-01	Line Filter	
18	.01	600	46AG103T	684-01	TC-11	ST-6-01	Audio Coupling	
19	.01	600	46AG103R	684-01	TC-15	ST-6-05	RF Bypass Pwr. Supply	
20	.01	600	46AG103T	684-01	TC-11	ST-6-01	Tone Compensation	
21	.01	600	46AG103T	684-01	TC-11	ST-6-01	Audio Compensation	
22	.01	600	46AG103T	684-01	TC-15	ST-6-05	Tone Compensation	
23	.01	600	46AG103R	684-01	TC-11	ST-6-01	Audio Compensation	
24	.1	200	46A104T	484-1	TC-11	ST-4-1	Tone Compensation	
25	.01	600	46A103T	684-01	TC-11	ST-6-01	Audio Coupling	
26	.003	600	46A103R	684-003	TC-23	ST-6-03	Tone Compensation	
27	.005	600	46A103T	684-005	TC-25	ST-6-05	Tone Compensation	
28	.01	600	46AG103R	684-01	TC-11	ST-6-01	AVC Filter	
29	.01	600	46AG103T	684-01	TC-11	ST-6-01	Diode Load Cap.	
30	.05	600	46A103T	684-05	TC-15	ST-6-05	TC-15	
31	.05	600	46A103R	684-05	TC-15	ST-6-05	4th IF Plate Decoup.	
32	.05	600	46A103R	684-05	TC-15	ST-6-05	TC-15	
33	.01	600	46AG103R	684-01	TC-11	ST-6-01	3rd IF Screen Bypass	
34	.01	600	46AG103R	684-01	TC-11	ST-6-01	3rd IF Plate Decoup.	
35	.01	600	46AG103T	684-01	TC-11	ST-6-01	3rd IF Screen Bypass	
36	.01	600	46AG103T	684-01	TC-11	ST-6-01	3rd IF Plate Decoup.	
37	.01	600	46AG103R	684-01	TC-11	ST-6-01	2nd IF Screen Bypass	
38	.01	600	46AG103R	684-01	TC-11	ST-6-01	2nd IF Plate Decoup.	
39	.01	600	46AG103R	684-01	TC-11	ST-6-01	2nd IF Grid Filter	
40	.01	600	46AG103R	684-01	TC-11	ST-6-01	1st IF Plate Decoup.	
41	.01	600	46AG103T	684-01	TC-11	ST-6-01	1st IF Screen Bypass	
42	.01	600	46AG103T	684-01	TC-11	ST-6-01	AVC Filter	
43	.01	600	46AG103R	684-01	TC-11	ST-6-01	Mixer Plate Decoup.	
44	.02	600	46A103T	684-02	TC-12	ST-6-02	AVC Filter	
45	.02	600	46A103R	684-02	TC-12	ST-6-02	TC-12	
46	.02	600	46A10203T	684-02	TC-15	ST-6-02	Decoupling	
47	.01	600	46AG103T	684-01	TC-11	ST-6-01	Mixer Screen Bypass	
48	.01	600	46AG103R	684-01	TC-11	ST-6-01	AVC Filter	
49	.02	600	46A10203T	684-02	TC-12	ST-6-02	Tone Compensation	
50	.02	600	46A10203R	684-02	TC-12	ST-6-02	Filament Bypass	
51	.01	600	46AG103T	684-01	TC-11	ST-6-01	AVC Plate Bypass	
52	.220	500	CR204221M	1488-0002	TC-35	MO-5-325	Tone Compensation	
53	.350	500	CR204221M	1488-00085	TC-35	MO-5-325		
54	.22	500	CR204220K	1488-00025	TC-35	MO-5-425		
55	.100	500	CR204120M	1488-0001	TC-35	MO-5-31		
56	.300	500	CR204220M	1488-0001	TC-35	MO-5-45		
57	.47	500	CR204220M	1488-00005	TC-35	MO-5-325		
58	.320	500	CR204220M	1488-00002	TC-35	MO-5-325		

## TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA.							
		PRL	SEC. 1	SEC. 2	SEC. 3	STANCOR PART No.	THORDARSON PART No.	MERIT PART No.	
153	117V AC @ 1.4A	780V CT @ 1.75A DC	5-2V AC @ 3.0A	6-4V AC @ 3.0A	6-4V AC @ 3.0A	32C151	P-6165	T22507	P-2955

## TONE CHOKE

TRANSFORMER (OUTPUT)							INSTALLATION NOTES
ITEM No.	RATING			REPLACEMENT DATA			
	IMPEDANCE PRI. 7000Ω	DC RES. PRI. 50Ω	DC RES. SEC. 400Ω	HALICRAFT PART NO. 350096	STANCOR PART NO. 350096	THORDARN PART NO. T-22363*	MERIT PART NO. *Drill new mounting holes.
155	7000Ω cm	50Ω cm	400Ω 31Ω cm				

## PARTS LIST AND DESCRIPTIONS (Continued)

## PARTS LIST AND DESCRIPTIVE

## PARTS LIST AND DESCRIPTIONS (Continued)

## CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

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REPLACEMENT DATA				INSTALLATION NOTES	
ITEM NO.	RATING	WATT	WATT	WATT	WATT
	HALL-STAT PART NO.	IRC PART NO.	CLADOSTAT PART NO.		
	RESIST- ANCE				

RESISTORS				REPLACEMENT DATA		IDENTIFICATION CODES	
ITEM No.	RATING	RESISTANCE, VOLTS	PART No.	IRC	PART No.	IRC	PART No.
75	1 Meg.	RC20101042	375-1042	375-1042	BR-BLK-Y-375	AVC Network	
76	100K	RC20101044	375-1044	375-1044	BR-BLK-Y-375	"	
80	10K	RC20101046	375-1046	375-1046	BR-BLK-Y-375	"	
81	1K	RC20101047	375-1047	375-1047	BR-BLK-Y-375	"	
82	100	RC20101048	375-1048	375-1048	BR-BLK-Y-375	"	
83	10	RC20101049	375-1049	375-1049	BR-BLK-Y-375	"	
84	1	RC20101050	375-1050	375-1050	BR-BLK-Y-375	"	
85	100G	RC20101051	375-1051	375-1051	BR-BLK-Y-375	"	
86	220G	RC20102251	375-2251	375-2251	BR-BLK-Y-375	"	
87	1K2	RC20102252	375-2252	375-2252	BR-BLK-Y-375	"	
88	330K	RC20403351	375-3351	375-3351	BR-BLK-Y-375	"	
89	1000K	RC20403352	375-3352	375-3352	BR-BLK-Y-375	"	
90	10000K	RC20401021	375-10000	375-10000	BR-BLK-Y-375	"	
91	220K	RC20402251	375-2251	375-2251	BR-BLK-Y-375	"	
92	22K	RC20402252	375-2252	375-2252	BR-BLK-Y-375	"	
93	2.2K	RC20402253	375-2253	375-2253	BR-BLK-Y-375	"	
94	100G	RC20401021	375-1050	375-1050	BR-BLK-Y-375	"	
95	1K2	RC20401022	375-1051	375-1051	BR-BLK-Y-375	"	
96	1 Meg.	RC20401023	375-1052	375-1052	BR-BLK-Y-375	"	
97	1 Meg.	RC20401024	375-1053	375-1053	BR-BLK-Y-375	"	
98	47KQ	RC20404732	375-4732	375-4732	BR-BLK-Y-375	"	
99	65KQ	RC20406532	375-6532	375-6532	BR-BLK-Y-375	"	
100	47KQ	RC20404731	375-4731	375-4731	BR-BLK-Y-375	"	
101	1000R	RC20401021	375-1000	375-1000	BR-BLK-Y-375	"	
102	330KQ	RC20403341	375-3341	375-3341	BR-BLK-Y-375	"	
103	220KQ	RC20402241	375-2241	375-2241	BR-BLK-Y-375	"	
104	1K2	RC20401023	375-1052	375-1052	BR-BLK-Y-375	"	
105	1K2	RC20401024	375-1053	375-1053	BR-BLK-Y-375	"	
106	220KQ	RC20402242	375-2242	375-2242	BR-BLK-Y-375	"	
107	7000R	RC20407021	375-7021	375-7021	BR-BLK-Y-375	"	
108	1000R	RC20401022	375-1002	375-1002	BR-BLK-Y-375	"	
109	220KQ	RC20402243	375-2243	375-2243	BR-BLK-Y-375	"	
110	1000R	RC20401023	375-1052	375-1052	BR-BLK-Y-375	"	
111	1000R	RC20401024	375-1053	375-1053	BR-BLK-Y-375	"	
112	220KQ	RC20402244	375-2244	375-2244	BR-BLK-Y-375	"	
113	1000R	RC20401025	375-1054	375-1054	BR-BLK-Y-375	"	
114	220KQ	RC20402245	375-2245	375-2245	BR-BLK-Y-375	"	
115	1000R	RC20401026	375-1055	375-1055	BR-BLK-Y-375	"	
116	220KQ	RC20402246	375-2246	375-2246	BR-BLK-Y-375	"	
117	1000R	RC20401027	375-1056	375-1056	BR-BLK-Y-375	"	
118	220KQ	RC20402247	375-2247	375-2247	BR-BLK-Y-375	"	
119	1000R	RC20401028	375-1057	375-1057	BR-BLK-Y-375	"	
120	220KQ	RC20402248	375-2248	375-2248	BR-BLK-Y-375	"	
121	1000R	RC20401029	375-1058	375-1058	BR-BLK-Y-375	"	
122	220KQ	RC20402249	375-2249	375-2249	BR-BLK-Y-375	"	
123	1000R	RC20401030	375-1059	375-1059	BR-BLK-Y-375	"	
124	220KQ	RC20402250	375-2250	375-2250	BR-BLK-Y-375	"	
125	1000R	RC20401031	375-1060	375-1060	BR-BLK-Y-375	"	
126	220KQ	RC20402251	375-2251	375-2251	BR-BLK-Y-375	"	
127	1000R	RC20401032	375-1061	375-1061	BR-BLK-Y-375	"	
128	220KQ	RC20402252	375-2252	375-2252	BR-BLK-Y-375	"	
129	1000R	RC20401033	375-1062	375-1062	BR-BLK-Y-375	"	
130	220KQ	RC20402253	375-2253	375-2253	BR-BLK-Y-375	"	
131	1000R	RC20401034	375-1063	375-1063	BR-BLK-Y-375	"	
132	220KQ	RC20402254	375-2254	375-2254	BR-BLK-Y-375	"	
133	1000R	RC20401035	375-1064	375-1064	BR-BLK-Y-375	"	
134	220KQ	RC20402255	375-2255	375-2255	BR-BLK-Y-375	"	
135	1000R	RC20401036	375-1065	375-1065	BR-BLK-Y-375	"	
136	220KQ	RC20402256	375-2256	375-2256	BR-BLK-Y-375	"	
137	1000R	RC20401037	375-1066	375-1066	BR-BLK-Y-375	"	
138	220KQ	RC20402258	375-2258	375-2258	BR-BLK-Y-375	"	
139	1000R	RC20401039	375-1067	375-1067	BR-BLK-Y-375	"	
140	220KQ	RC20402259	375-2259	375-2259	BR-BLK-Y-375	"	
141	1000R	RC20401040	375-1068	375-1068	BR-BLK-Y-375	"	
142	220KQ	RC20402260	375-2260	375-2260	BR-BLK-Y-375	"	
143	1000R	RC20401041	375-1069	375-1069	BR-BLK-Y-375	"	
144	220KQ	RC20402261	375-2261	375-2261	BR-BLK-Y-375	"	
145	1000R	RC20401042	375-1070	375-1070	BR-BLK-Y-375	"	
146	220KQ	RC20402262	375-2262	375-2262	BR-BLK-Y-375	"	
147	1000R	RC20401043	375-1071	375-1071	BR-BLK-Y-375	"	
148	220KQ	RC20402263	375-2263	375-2263	BR-BLK-Y-375	"	
149	1000R	RC20401044	375-1072	375-1072	BR-BLK-Y-375	"	
150	220KQ	RC20402264	375-2264	375-2264	BR-BLK-Y-375	"	
151	1000R	RC20401045	375-1073	375-1073	BR-BLK-Y-375	"	
152	220KQ	RC20402265	375-2265	375-2265	BR-BLK-Y-375	"	
153	1000R	RC20401046	375-1074	375-1074	BR-BLK-Y-375	"	
154	220KQ	RC20402266	375-2266	375-2266	BR-BLK-Y-375	"	
155	1000R	RC20401047	375-1075	375-1075	BR-BLK-Y-375	"	
156	220KQ	RC20402267	375-2267	375-2267	BR-BLK-Y-375	"	
157	1000R	RC20401048	375-1076	375-1076	BR-BLK-Y-375	"	
158	220KQ	RC20402268	375-2268	375-2268	BR-BLK-Y-375	"	
159	1000R	RC20401049	375-1077	375-1077	BR-BLK-Y-375	"	
160	220KQ	RC20402269	375-2269	375-2269	BR-BLK-Y-375	"	
161	1000R	RC20401050	375-1078	375-1078	BR-BLK-Y-375	"	
162	220KQ	RC20402270	375-2270	375-2270	BR-BLK-Y-375	"	
163	1000R	RC20401051	375-1079	375-1079	BR-BLK-Y-375	"	
164	220KQ	RC20402271	375-2271	375-2271	BR-BLK-Y-375	"	
165	1000R	RC20401052	375-1080	375-1080	BR-BLK-Y-375	"	
166	220KQ	RC20402272	375-2272	375-2272	BR-BLK-Y-375	"	
167	1000R	RC20401053	375-1081	375-1081	BR-BLK-Y-375	"	
168	220KQ	RC20402273	375-2273	375-2273	BR-BLK-Y-375	"	
169	1000R	RC20401054	375-1082	375-1082	BR-BLK-Y-375	"	
170	220KQ	RC20402274	375-2274	375-2274	BR-BLK-Y-375	"	
171	1000R	RC20401055	375-1083	375-1083	BR-BLK-Y-375	"	
172	220KQ	RC20402275	375-2275	375-2275	BR-BLK-Y-375	"	
173	1000R	RC20401056	375-1084	375-1084	BR-BLK-Y-375	"	
174	220KQ	RC20402276	375-2276	375-2276	BR-BLK-Y-375	"	
175	1000R	RC20401057	375-1085	375-1085	BR-BLK-Y-375	"	
176	220KQ	RC20402277	375-2277	375-2277	BR-BLK-Y-375	"	
177	1000R	RC20401058	375-1086	375-1086	BR-BLK-Y-375	"	
178	220KQ	RC20402278	375-2278	375-2278	BR-BLK-Y-375	"	
179	1000R	RC20401059	375-1087	375-1087	BR-BLK-Y-375	"	
180	220KQ	RC20402279	375-2279	375-2279	BR-BLK-Y-375	"	
181	1000R	RC20401060	375-1088	375-1088	BR-BLK-Y-375	"	
182	220KQ	RC20402280	375-2280	375-2280	BR-BLK-Y-375	"	
183	1000R	RC20401061	375-1089	375-1089	BR-BLK-Y-375	"	
184	220KQ	RC20402281	375-2281	375-2281	BR-BLK-Y-375	"	
185	1000R	RC20401062	375-1090	375-1090	BR-BLK-Y-375	"	
186	220KQ	RC20402282	375-2282	375-2282	BR-BLK-Y-375	"	
187	1000R	RC20401063	375-1091	375-1091	BR-BLK-Y-375	"	
188	220KQ	RC20402283	375-2283	375-2283	BR-BLK-Y-375	"	
189	1000R	RC20401064	375-1092	375-1092	BR-BLK-Y-375	"	
190	220KQ	RC20402284	375-2284	375-2284	BR-BLK-Y-375	"	
191	1000R	RC20401065	375-1093	375-1093	BR-BLK-Y-375	"	
192	220KQ	RC20402285	375-2285	375-2285	BR-BLK-Y-375	"	
193	1000R	RC20401066	375-1094	375-1094	BR-BLK-Y-375	"	
194	220KQ	RC20402286	375-2286	375-2286	BR-BLK-Y-375	"	
195	1000R	RC20401067	375-1095	375-1095	BR-BLK-Y-375	"	
196	220KQ	RC20402287	375-2287	375-2287	BR-BLK-Y-375	"	
197	1000R	RC20401068	375-1096	375-1096	BR-BLK-Y-375	"	
198	220KQ	RC20402288	375-2288	375-2288	BR-BLK-Y-375	"	
199	1000R	RC20401069	375-1097	375-1097	BR-BLK-Y-375	"	
200	220KQ	RC20402289	375-2289	375-2289	BR-BLK-Y-375	"	
201	1000R	RC20401070	375-1098	375-1098	BR-BLK-Y-375	"	
202	220KQ	RC20402290	375-2290	375-2290	BR-BLK-Y-375	"	
203	1000R	RC20401071	375-1099	375-1099	BR-BLK-Y-375	"	
204	220KQ	RC20402291	375-2291	375-2291	BR-BLK-Y-375	"	
205	1000R	RC20401072	375-1100	375-1100	BR-BLK-Y-375	"	
206	220KQ	RC20402292	375-2292	375-2292	BR-BLK-Y-375	"	
207	1000R	RC20401073	375-1101	375-1101	BR-BLK-Y-375	"	
208	220KQ	RC20402293	375-2293	375-2293	BR-BLK-Y-375	"	
209	1000R	RC20401074	375-1102	375-1102	BR-BLK-Y-375	"	
210	220KQ	RC20402294	375-2294	375-2294	BR-BLK-Y-375	"	
211	1000R	RC20401075	375-1103	375-1103	BR-BLK-Y-375	"	
212	220KQ	RC20402295	375-2295	375-2295	BR-BLK-Y-375	"	
213	1000R	RC20401076	375-1104	375-1104	BR-BLK-Y-375	"	
214	220KQ	RC20402296	375-2296	375-2296	BR-BLK-Y-375	"	
215	1000R	RC20401077	375-1105	375-1105	BR-BLK-Y-375	"	
216	220KQ	RC20402297	375-2297	375-2297	BR-BLK-Y-375	"	
217	1000R	RC20401078	375-1106	375-1106	BR-BLK-Y-375	"	
218	220KQ	RC20402298	375-2298	375-2298	BR-BLK-Y-375	"	
219	1000R	RC20401079	375-1107	375-1107	BR-BLK-Y-375	"	
220	220KQ	RC20402299</td					

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K F COLS

KFC

ITEM No.	USE	DC RES.		REPLACEMENT DATA	
		PRI.	SEC.	HALLICRUTER	MEISSNER PART No.
150	150	150	150	150	150
157	157	157	157	157	157
158	158	158	158	158	158
159	159	159	159	159	159
160	160	160	160	160	160
161	161	161	161	161	161
162	162	162	162	162	162
163	163	163	163	163	163
164	164	164	164	164	164
165	165	165	165	165	165
166	166	166	166	166	166
167	167	167	167	167	167
168	168	168	168	168	168
169	169	169	169	169	169
170	170	170	170	170	170
171	171	171	171	171	171
172	172	172	172	172	172
173	173	173	173	173	173
174	174	174	174	174	174

DIAL LIGHT

DIAL LIGHT						INSTALLATION NOTE
ITEM No.	BASE TYPE	VOLTS	AMPS.	REPLACEMENT DATA		PART No.
				BEAD COLOR	STATUS	
176	5-3-7-11	120	1/2	Red	100% 100%	177

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ITEM No.	PART NAME	HALL PARTS PART No.	NOTES
178	Sw. CSC.	60307	3-SS-On-Cast m-2-9
179	"	60304	Br-d
180	"	60286	Mat-15
181	"	18492	
182	Ballast tube	24370	
183	3 Gage Var. Cap	48C176	(4") (12-475MM) each section (4")
184	" "	48C175	
185	Trimmer	44A189	BC CSC. Adj.
	Trimmer Str. CSC	443195	A-5, A19, A22, A25, A26, A31
	" " RF	443196	A16, A20, A23, A26, A25, A32
	" " (A.M.)	441190	A17, A21, A24, A27, A30, A33
A35	Trimmer	441192	Fl. RF Adj.
A36	"	441194	Fl. Ant. Adj.
	Painter	828143	AM
	"	828138	Fl
	Dral Glass	228184	Upper
	"	228183	Lower

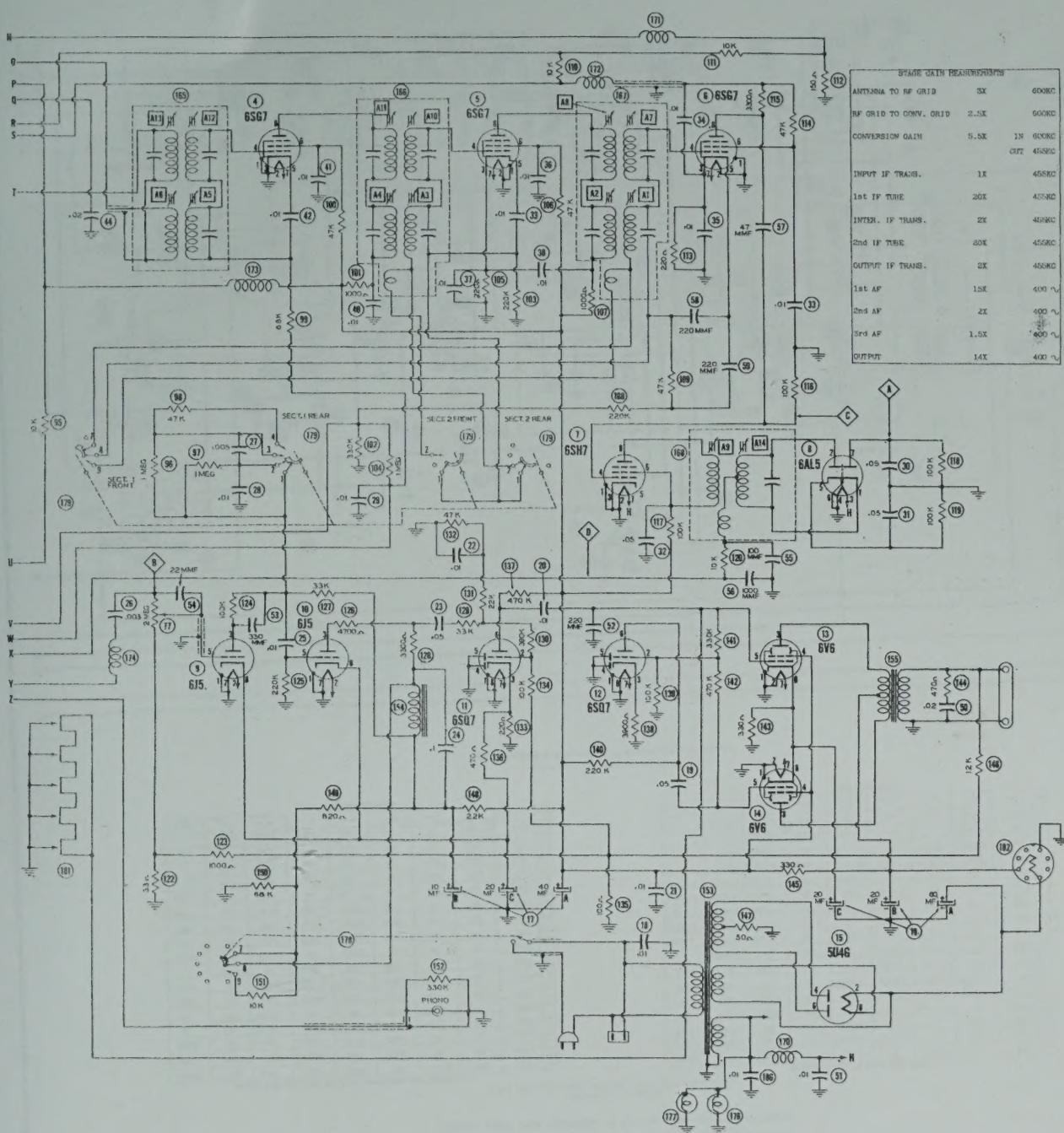
**PUSHBUTTON ADJUSTMENTS**

1. Take up list of stations desired to be set up.
2. Turn set on and allow to warm up for at least fifteen minutes.
3. Insulate mating switches by inserting paper strip between contacts.
4. Remove transparent section of button and insert screwdriver thru large hole of button.
5. Loosen locking screw not more than one turn.
6. Depress pushbutton and manually tune in station desired to be set up, and tighten locking screw.
7. Insert call letter tab of station between transparent section of button and metal insert and replace insert in button. This station is now set up.

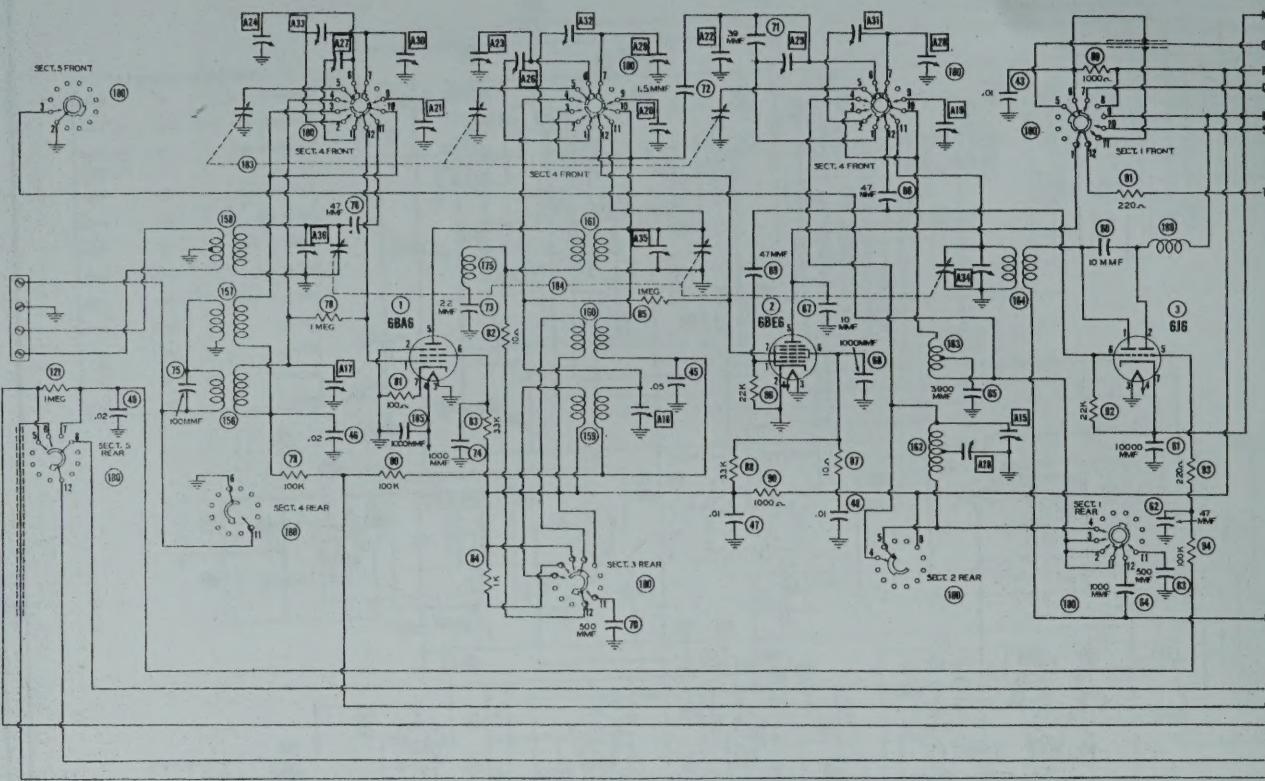
a. Repeat the above procedure for the remaining buttons to be set up.

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The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation, such as, type of equipment used for measuring, handling and placement of probes, the accuracy of alignment, etc., that an absolute reading is impractical. AVC is made inoperative and 3-volt battery bias substituted for measurement.



VOLTAGE AND RESISTANCE READINGS TAKEN IN BROADCAST POSITION.  
NOTE-Tone Control full clockwise.

Item	Tube	VOLTAGE READINGS						
		Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
1	6BA6	-2VDC	OV.	0V.	6.4VAC	280VDC	140VDC	1.0VDC
2	6BE6	-11VDC	OV.	0V.	6.4VAC	320VDC	95VDC	-2VDC
3	616	215VDC	1.7VDC	OV.	6.4VAC	-14VDC	2VDC	-
4	616	190VDC	110VDC	OV.	6.4VAC	-6VDC	-3.3VDC	4VDC
5	6BA6	OV.	OV.	OV.	6.4VAC	130VDC	6.4VAC	330VDC
6	6BA6	OV.	OV.	OV.	6.4VAC	182VDC	6.4VAC	318VDC
7	6BA6	OV.	OV.	OV.	6.4VAC	1.3VDC	6.4VAC	1.5VDC
8	6BA6	OV.	OV.	2.2VDC	OV.	2.2VDC	140VDC	6.4VAC
9	616	OV.	OV.	OV.	6.4VAC	2.2VDC	6.3VAC	245VDC
10	616	OV.	OV.	6.4VAC	112VDC	1.2VDC	OV.	3VDC
11	616	OV.	OV.	1VDC	OV.	125VDC	6.4VAC	OV.
12	616	OV.	OV.	-1VDC	2VDC	OV.	0V.	250VDC
13	616	OV.	OV.	345VDC	325VDC	OV.	OV.	6.4VAC
14	616	OV.	OV.	345VDC	325VDC	OV.	OV.	6.4VAC
15	616	OV.	OV.	400VDC	380VAC	OV.	OV.	400VDC

STAND WITH VACUUM TUBE VOLTMETER.

Voltage and Resistance Readings Taken with 600Ω Load.

\*\*180Ω in PH position.

RESISTANCE READINGS IN THE B+ CIRCUITS MAY VARY WIDELY  
ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS

THE COOPERATION OF THE MANUFACTURER OF THIS  
RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of  $\pm 10\%$  in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.



